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"CNC TIMBER-EVOLUTION DAYS" FIRST EDITION A GREAT SUCCESS

Advanced CNC technologies, new projects and a clear market growth have contributed to the success of the SCM open house dedicated to wooden housing solutions

Rimini - On October 12 to 13, in the splendid Tuscan autumn setting of the SCM Sinalunga plant, a number of companies and technological partners from the wooden construction industries in **Japan, France, Germany, Austria, Belgium, Finland, Portugal, Denmark and Italy** have assembled in order to learn first-hand about the **latest developments in Oikos and Area CNC machining centres.** Over 50 companies flocked to the first edition of the SCM open-house dedicated to constructors of large and small wooden buildings, residential and public; a clearly successful event with massive international presence during which SCM introduced new technological training programmes.

Tommaso Martini, SCM Timber Construction Machining Centres BU Manager, sums up well the energetic enthusiasm during the Tuscan days. "***The fact that wooden buildings are more popular these days is also due to the great technological developments in this sector,*** achieved by research efforts in which SCM has invested heavily and continues to invest. *SCM's CNC TIMBER-EVOLUTION finds its best expression in the Oikos and Area machining centres, which provide continuous innovation, maximum precision, application flexibility and ease of use, and which our partners from around the world continue to use to Build the Future with Wood."*

"The demand for wooden buildings is growing at a fast pace in Italy. In 2015 one out of fourteen new houses was built with wood, and often buyers seek constructors who build houses using this most ecological raw material."

"This data has driven us to ***accelerate technological development and also help it by collaborating with the academic world,*** *which explains the announcement we made during the CNC TIMBER-EVOLUTION DAYS of a new* ***partnership between SCM*** *and the Department of Architecture and Design at the* ***Turin Politecnico****."*

During the open-house event, a programme of technical demonstrations illustrated the peerless performance of the **OIKOS machining centres by processing structural beams and X-LAM/CLT wall panels, as well as that of the AREA centres by processing walls, insulating panels and curved beams.** These are two different machines, yet both are based on the same design principles that characterise all the SCM machining centres. Great interest was shown in the demonstrations of the **SCM Beam&Wall Maestro software,** where you could actually feel the ease of programming and controlling the Oikos and Area centres.

Finally, Professor **Guido Callegari of the Turin Politecnico** focused his address on the fundamental importance of technology in the development of future buildings, and on how German architect Konrad Wachsmann recognized as far back as the 1930s that "the new woodworking method" (that is, factory-made construction components) had the potential and would be responsible for "changing also the outside look of buildings, which can only lead to the creation of a new form." **This kind of reflections makes us understand how the technological evolution has contributed to cultural change.**

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Oikos and Area

Innovation
Both machining centres are fitted with **machining units specifically designed to maximise performance in terms of dimensions, dynamics and power.**
Six axes on the OIKOS machining unit to obtain a stiffer machine configuration and ensure high performance and productivity.
The AREA electrospindle features power up to 30 kW, to perform any type of operation with maximum stiffness in any condition and using either a sawblade up to 1020 mm in diameter, or a chainsaw with a cutting length of 480 mm. Maximum worktable dimensions are **4,5 m in width and 50 m in length.**

Precision
Oikos consolidates the **technology of 6 sides of the workpiece. Without having to turn over or reposition the beams,** machining is achieved on components **with a maximum width of 1250 mm, thickness of 300 mm and length of 19 m**. This improves precision as the beam can go directly from the machine to the site without the need for any manual adjustment.
Area, thanks to the **innovative solutions employed in the supporting structure, allows extremely precise machining on elements longer than 50 metres.**

Flexibility
The unique configuration of Oikos married to the continuous development, allow the machine to be used for operations on special products, such as cutting **insulating or composite panels and threading lamellar beams**.
The new solutions developed for the Area worktable allow the complete machining not only of walls, but also of curved beams and thin panels. The former are processed on a suction cups-worktable whilst the latter use aluminium multifunction modules that can be integrated in the worktable itself.

Simple and quick to use
The success of machines for timber construction depends also by the effectiveness of the software that is developed and constantly updated internally to ensure it is in line with the design standards of wooden constructions.
Scm developed then **Maestro Beam&Wall** software, in order to achieve maximum speed and ease of use: **a single program that allows access to the programming, program execution and tool management environments.**

The Nesting function to process wall panels is now also available for Oikos: Maestro Beam&Wall can import .btl format files generated for nesting machining, in order to optimise the use of the material and reduce waste.

Order profitability
As with all Scm machining centres, Area and Oikos are both available with the **simulation software** included in Maestro Beam&Wall. The simulator makes it possible to test the programs in advance on PC and visualize the operations that will be performed during production, with obvious benefits for the customer:
• to eliminate collision risks, errors and downtime
• to calculate production time and cost, resulting in easy determination of the yield of acquired orders.

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Press Office SCM Group
press@scmgroup.com - tel. +39 0541 700157

Communications SCM Group
Gian Luca Fariselli – **gianluca.fariselli@scmgroup.com**